

## 4 Front-end server

Web site and repository access are hosted by front-end server.

### 4.1 Operating System

- **DNS records**

```
server45.to.cnr.it A 150.145.48.45
                  A 2a00:1620::45
demo              CNAME server45.to.cnr.it.
```

- **Virtual machine creation**

1CPU / 1GB RAM / 8GB HD / 1 eth(DMZ)

- **Ubuntu server 10.04 LTS installation**

from CDROM with LAMP and SSH

LVM partitioning (root/swap)

- **Network interfaces configuration**

```
nano -w /etc/network/interfaces

auto lo
iface lo inet loopback
auto eth0
iface eth0 inet static
address 150.145.48.45
netmask 255.255.255.0
network 150.145.48.0
broadcast 150.145.48.255
gateway 150.145.48.1
dns-nameservers 150.145.48.8 150.145.48.9
dns-search to.cnr.it
iface eth0 inet6 static
address 2a00:1620::45
netmask 64
gateway 2a00:1620::1
# Disable autoconf
post-up echo 0 > /proc/sys/net/ipv6/conf/default/accept_ra
post-up echo 0 > /proc/sys/net/ipv6/conf/all/accept_ra
post-up echo 0 > /proc/sys/net/ipv6/conf/$IFACE/accept_ra
post-up echo 0 > /proc/sys/net/ipv6/conf/default/autoconf
post-up echo 0 > /proc/sys/net/ipv6/conf/all/autoconf
post-up echo 0 > /proc/sys/net/ipv6/conf/$IFACE/autoconf

auto eth1
iface eth1 inet static
address 192.168.1.45
netmask 255.255.255.0
network 192.168.1.0
broadcast 192.168.1.255
```

- **NTP Client and other packages**

```
apt-get install ntp
nano -w /etc/ntp.conf
server ntp1.inrim.it
server ntp2.inrim.it
/etc/init.d/ntp restart
apt-get install unzip
apt-get install git-core
```

- **OS update**

```
apt-get update
apt-get upgrade
reboot
```